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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/724,685
Filing Date	11-28-2000
First Named Inventor	Steven G. Reed
Art Unit	1645
Examiner Name	Rodney P. Swartz
Attorney Docket Number	GSK006C13/CRX411C13

Sheet 1 of 32

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1	US-4,235,877	11/25/1980	Fullerton	
	2	US-4,436,727	03/13/1984	Ribi	
	3	US-4,603,112	07/29/1986	Paoletti et al.	
	4	US-4,751,180	06/14/1988	Cousens et al.	
	5	US-4,769,330	09/06/1988	Paoletti et al.	
	6	US-4,777,127	10/11/1988	Suni et al.	
	7	US-4,866,034	09/12/1989	Ribi	
	8	US-4,877,611	10/31/1989	Cantrell	
	9	US-4,897,268	01/30/1990	Tice et al.	
	10	US-4,912,094	03/27/1990	Myers et al.	
	11	US-4,935,233	06/19/1990	Bell et al.	
	12	US-4,946,778	08/07/1990	Ladner et al.	
	13	US-5,145,684	09/08/1992	Liversidge et al.	
	14	US-5,240,856	08/31/1993	Goffe et al.	
	15	US-5,504,005	04/02/1996	Bloom et al.	
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	18	US-5,567,434	10/22/1996	Szoka	
	19	US-5,580,579	12/03/1996	Ruddy et al.	
	20	US-5,583,112	12/10/1996	Kensil et al.	
	21	US-5,599,545	04/04/1997	Stanford et al.	
	22	US-5,616,500	04/01/1997	Stanford et al.	
	23	US-5,639,653	06/17/1997	Bloom et al.	
	24	US-5,714,593	02/03/1998	Tsumita et al.	
	25	US-5,780,045	07/14/1998	McQuinn	

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	26	US-5,783,368	07/21/1998	Jacobs, Jr. et al.	
	27	US-5,795,587	08/22/1998	Gao et al.	
	28	US-5,804,212	09/08/1998	Illum	
	29	US-5,811,128	09/22/1998	Tice et al.	
	30	US-5,814,344	09/29/1998	Tice et al.	
	31	US-5,817,473	10/06/1998	Das et al.	
	32	US-5,820,883	10/13/1998	Tice et al.	
	33	US-5,853,763	12/29/1998	Tice et al.	
	34	US-5,856,462	01/05/1999	Agrawal	
	35	US-5,928,647	07/27/1999	Rock	
	36	US-5,942,252	08/24/1999	Tice et al.	
	37	US-5,985,287	11/16/1999	Tan et al.	
	38	US-5,955,077	09/21/1999	Andersen et al.	
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	40	US-6,034,216	03/07/2000	Reed et al.	
	41	US-6,037,135	03/14/2000	Kubo et al.	
	42	US-6,113,918	09/05/2000	Johnson et al.	
	43	US-6,290,969	11/08/2001	Reed et al.	
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	47	US-6,555,653	04/29/2003	Alderson et al.	
	48	US-6,592,877	07/15/2003	Reed et al.	
	49	US-6,613,881	09/02/2003	Alderson et al.	
	50	US-6,962,710	11/08/2005	Reed et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ² - Number ³ - Kind Code ⁴ (if known)					
	51	EP	345242	12/06/1989	Geysen et al.		
	52	EP	519218	12/23/1992	Singh et al.		
	53	FR	2244539	04/18/1975	Mitsui Pharmaceuticals		
	54	FR	2265402	10/24/1975	Mitsui Pharmaceuticals		
	55	GB	2200651	08/10/1988	Al-Sumdale		
	56	GB	2298862	09/18/1996	Astra Aktiebiolog		
	57	WO	88/06591 Part 1	09/07/1988	Shinnick et al.		
	58	WO	88/06591 Part 2	09/07/1988	Shinnick et al.		
	59	WO	89/01973	03/09/1989	Panicali et al.		
	60	WO	89/06280	07/13/1989	Peterson et al.		
	61	WO	91/02805 Part 1	03/07/1991	Graber et al.		
	62	WO	91/02805 Part 2	03/07/1991	Graber et al.		
	63	WO	91/18926	12/12/1991	Awapatent		
	64	WO	92/07243	04/30/1992	Kalamasz		
	65	WO	92/14154	08/20/1992	Istrate		
	66	WO	94/00153	01/05/1994	Prieels et al.		
	67	WO	94/00228	01/06/1994	Cazabonne		
	68	WO	94/14069	06/23/1994	Das et al.		
	69	WO	94/20078	09/15/1994	Samian et al.		
	70	WO	94/23701	10/27/1994	Perrin et al.		
	71	WO	95/17210	06/29/1995	Momin et al.		
	72	WO	95/17511 Part 1	06/29/1995	Jacobs, Jr. et al.		
	73	WO	95/17511 Part 2	06/29/1995	Jacobs, Jr. et al.		
	74	WO	95/31216	11/23/1995	Lowrie		
	75	WO	96/02555	02/01/1996	Krieg		

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Sheet 4 of 32

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		Country Code ² - Number ³ - Kind Code ² (if known)		MM-DD-YYYY			
	76	WO	96/06638	03/07/1996	Belbeder et al.		
	77	WO	96/28551	09/19/1996	Titball et al.		
	78	WO	96/33739	10/31/1996	Garcon et al.		
	79	WO	96/38591	12/05/1996	Guegler et al.		
	80	WO	97/09248	03/13/1997	Redd et al.		
	81	WO	97/09249	03/13/1997	Szabo		
	82	WO	97/24447	10/07/1997	Song et al.		
	83	WO	98/07868 Part 1	02/26/1998	Schupp et al.		
	84	WO	98/07868 Part 2	02/26/1998	Schupp et al.		
	85	WO	98/07868 Part 3	02/26/1998	Schupp et al.		
	86	WO	98/16645 Part 1	04/23/1998	Reed et al.		
	87	WO	98/16645 Part 2	04/23/1998	Reed et al.		
	88	WO	98/16645 Part 3	04/23/1998	Reed et al.		
	89	WO	98/16645 Part 1	04/23/1998	Reed et al.		
	90	WO	98/16645 Part 2	04/23/1998	Reed et al.		
	91	WO	98/16645 Part 3	04/23/1998	Reed et al.		
	92	WO	98/44119 Part 1	10/08/1998	Andersen et al.		
	93	WO	98/44119 Part 2	10/08/1998	Andersen et al.		
	94	WO	98/44119 Part 3	10/08/1998	Andersen et al.		
	95	WO	98/44119 Part 4	10/08/1998	Andersen et al.		
	96	WO	98/53075 Part 1	11/26/1998	Alderson et al.		
	97	WO	98/53075 Part 2	11/26/1998	Alderson et al.		
	98	WO	98/53075 Part 1	11/26/1998	Alderson et al.		
	99	WO	98/53075 Part 2	11/26/1998	Alderson et al.		
	100	WO	99/09186 Part 1	02/25/1999	Gioquel		

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NON PATENT LITERATURE DOCUMENTS			
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	101	ALTSCHUL, et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nuc. Acids Res. (25):3389 - 3402 (1997)	
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	104	ANDERSEN, et al., "Identification of Immunodominant Antigens of Mycobacterium tuberculosis," Scand. J. Immunol. 6:823-831 (1992)	
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	109	BARRERA, et al., "Humoral Response to Mycobacterium Tuberculosis in Patients with Human Immunodeficiency Virus Infection" Tubercle and Lung Disease 73(4):187-91 (1992)	
	110	BATZER, et al., "Enhances evolutionary PCR using oligonucleotides with inosine at the 3' terminus" Nuc. Acids Res. 19:5081 (1991)	

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	111	BERKNER, "Development of Adenovirus Vectors for the Expression of Heterologous Genes," Biotechniques 6:616-627 (1988)		
	112	BOESEN et al., "Human T-Cell Responses to Secreted Antigen Fractions of Mycobacterium tuberculosis," Infection and Immunity 63(4):1491-1497 (1995)		
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	114	BOWIE, et al., "Deciphering the Message of Protein Sequences: Tolerance to Amino Acid Substitutions" Science 257:1306-10 (1990)		
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	120	CHAITRA, et al., "Defining putative T cell epitopes from PE and PPE families of protein of M. tuberculosis with vaccine potential" Vaccine 23(10):1265-72 (2005)		

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	121	CHAITRA, et al., "HLA0201-restricted cytotoxic T-cell epitopes in three PE/PPE family proteins of M. tuberculosis" Scand. J. of Immunology 67(4):411-17 (2008)	
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	127	COLE et al., "Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence," Nature 393: 537-544 (1998)	
	128	COLER, et al. "Molecular cloning and immunologic reactivity of a novel low molecular mass antigen for Mycobacterium tuberculosis," J. Immunol. 161(5):2356-2364 (1998)	
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Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/724,685	
			Filing Date	11-28-2000	
			First Named Inventor	Steven G. Reed	
			Art Unit	1645	
			Examiner Name	Rodney P. Swartz	
Sheet	8	of	32	Attorney Docket Number	GSK006C13/CRX411C13

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	131	COOMBES, et al., "Single dose, polymeric, microparticle-based vaccines: the influence of formulation conditions on the magnitude and duration of the immune response to a protein antigen," Vaccine 14: 1429 – 1438 (1996)		
	132	CORUZZI, et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-bisphosphate carboxylase," EMBO 3: 1671 – 1680 (1984)		
	133	CREIGHTON, Protein Structure: A Practical Approach, pp. 184-186 (1989)		
	134	CREIGHTON, Proteins: Structures and Molecular Properties, pp. 314-315 (1984)		
	135	DALEINE, et al., "Preliminary evaluation of a Mycobacterium tuberculosis lipopoligosaccharide (LOS) antigen in the serological diagnosis of tuberculosis in HIV seropositive and seronegative patients," Tubercle and Lung Disease, 76(3): 234-39 (1995)		
	136	DEVEREAUX, et al., "A Comprehensive System of Sequence Analysis Tools for the VAX," Nuc. Acids Res. 12: 387-395 (1984)		
	137	FISHER-HOCH, et al., "Protection of rhesus monkey from fatal Lassa fever by vaccination with a recombinant vaccinia virus containing the Lassa virus glycoprotein gene" PNAS USA 86: 317- 321 (1989)		
	138	FLEXNER, et al., "Vaccinia Virus Expression Vectors" Vaccine 8: 17-21 (1989)		
	139	FLEXNER, "Attenuation and immunogenicity in primates of vaccinia virus recombinants expression human interleukin-2," Ann. NY. Acad. Sci. 569: 86-103 (1989)		
	140	FLYNN, et al., "An essential Role for Interferon γ in Resistance to Mycobacterium tuberculosis Infection," J. of Experimental Medicine 178: 2249-2254 (1993)		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	09/724,685
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Attorney Docket Number	GSK006C13/CRX411C13

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NON PATENT LITERATURE DOCUMENTS

Examine r Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	141	GARCIA, "Nucleotide Sequence and Expression of pneumococcal autolysin gene from its own promoter in E. Coli," Gene (43):265-292 (1986)	
	142	GOODMAN-SMITKOFF, et al., "Defining minimal requirements for antibody production to peptide antigens," Vaccine 8: 257-262 (1990)	
	143	GRANT, et al., "Expression and Secretion Vectors for Yeast," Methods Enzymol. 153: 516 - 544 (1987)	
	144	GREENSPAN and DI CERA, "Defining epitopes: It's not as easy as it seems," Nature Biotechnology 17: 936-937 (1999)	
	145	GRIFFIN, et al., "Animal Models of Protective Immunity in Tuberculosis to Evaluate Candidate Vaccines," Trends in Microbiology 3(11): 418-423 (1995)	
	146	GUZMAN, et al., "Efficient Gene Transfer into Myocardium by Direct Injection of Adenovirus," Cir. Res. 73: 1202-1207 (1993)	
	147	Harrison's Principles of Internal Medicine, vol. 1, pages 1004-1014 (1998)	
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	149	HARTMAN and MULLIGAN, "Two dominant-acting selectable markers for gene transfer studies in mammalian cells," PNAS USA 85: 8047-51 (1988)	
	150	HENDRICKSON, et al., "Mass Spectrometric Identification of Mtb81, A Novel Serological Marker for Tuberculosis," J. Clin. Microbiol 38(6):2354-2361 (2000)	

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